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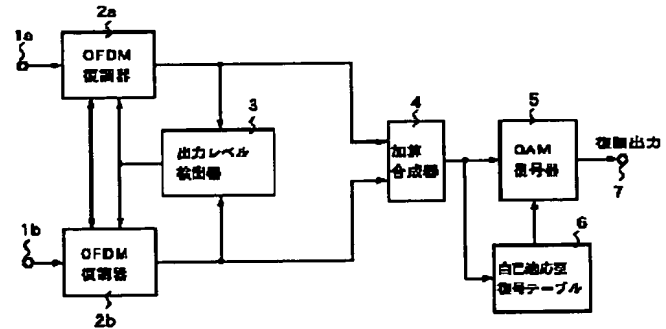
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TITLE : DIVERSITY RECEIVER OF
QUADRATURE FREQUENCY DIVISION
MULTIPLEXED SIGNAL



ABSTRACT : PROBLEM TO BE SOLVED: To perform good decoding operation with less error by adaptively operating a quadrature amplitude modulation(QAM) decoding circuit.

SOLUTION: Quadrature frequency division multiplexed signals received by two antennas installed at different places are decoded by a QAM decoder 5 after signals separately demodulated by two demodulators 2a, 2b are synthesized by an adder and synthesizer 4. For this reason, even when a direct wave and an indirect wave (multipath signal) are in a reverse-phase relation and the signals are cancelled in a certain antenna, the quadrature frequency division multiplexed signal is received at a good condition in another antenna, therefore decoding is continuously performed. In addition, amplified gains in the demodulators 2a, 2b are variably controlled to the same value according to an outputted demodulation signal level of the demodulators 2a, 2b by an output level detector 3, therefore, the amplified gain is not increased over a required value.

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